

## ABSTRACT

The present invention provides a gun chamber configured for accepting an efficient gun cartridge where the efficiency of the gun cartridge is determined by determining the water weight volume of the cartridge; determining the bore diameter of the gun barrel; determining the weight of the bullet; and calculating the efficiency rating of the cartridge by multiplying the water weight volume by the bore diameter and dividing by the bullet weight. The efficiency rating is optimal between 110 and 145 when the water weight volume is determined in grains, the bore diameter is determined in thousandths of inches and the bullet weight is determined in grains. One such 50 caliber gun cartridge has a casing diameter of approximately 0.688 inches and neck portion which accepts a bullet having a bore diameter of approximately .510 inches. The case has a length ranging from 1.90 inches to 2.5 inches measured from the primer to the mouth of the neck.